L.A. RR#: 26044

TECH DATA SHEET

Sections - 071000 / 071300 / 071353 / 071354

Aussie Skin® 560G

Heavy Duty HDPE Below Grade Sheet Waterproofing Membrane and Methane/VOC/Radon Barrier with Damage Detect® Technology

Methane Approved Shot-Crete Approved

Section 071000 / 071300 / 071353 / 071354
Sheet Applied Waterproofing

Product Name

Aussie Skin® 560G

AVM System No.

AVM System 560G

By

AVM Industries, Inc.
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Product Description

The **AVM Aussie Skin 560G** is an Extra Heavy Duty Pre-Applied 2.0 mm thick Waterproofing, Methane and Shot Crete Approved, Easy to Install, Puncture Resistant HDPE Sheet Membrane with advanced weather resistant dual factory laps, two release liners, a low reflectivity exposed surface, two non-factory lap options and additional technologies creating excellent adhesion between the membrane and wet Concrete or Shot-Crete. Once the Concrete or Shot-Crete is cured, the membrane will become fully bonded to the concrete surfaces eliminating any potential migration of water between itself and the concrete surfaces to which it is bonded.

AVM Aussie Skin 560G *has a Los Angeles Research Report (LARR) Approval as a waterproofing membrane, as a methane barrier and is approved for Shot-Crete applications when installed on lagging over plywood, drain board or foam.*

Where to Use

Below-grade horizontal and vertical surfaces. Applications include underslab and property line walls, including soldier pile and lagging, metal sheet piling, shotcrete soil retention, and tunnels.

AVM Aussie Skin 560G may be applied either horizontally to smoothly prepared concrete substrates and/or compacted earth or crushed stone substrates. It may also be applied vertically to permanent formwork such as lagging. Concrete or Shot Crete is then cast directly against the adhesive side of the membrane.

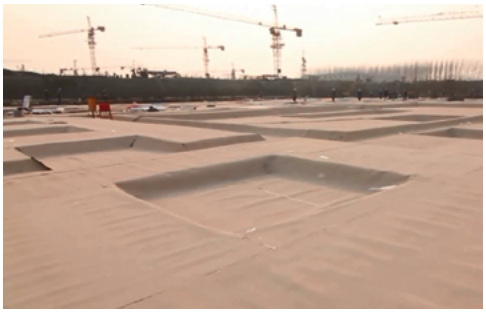
Note: **AVM Aussie Skin 560G** is not suited to waterproof roofs or other internal wet areas.

Application Method:

Pre-Applied, loosely laid.

Warranty

AVM Industries provides a standard five (5) year warranty. Ten (10) year warranties are also available. For complete warranty details, contact AVM Industries or consult with your applicator. Shot-Crete to conform to ACI 506 Standards.



Delivery, Storage, and Handling

a. Delivery of all the **AVM Aussie Skin 560G** materials to the job site must be in their original sealed containers, with manufacturer's name and label intact.
b. Handle and store containers in accordance with printed instructions. Shelf Life: One year from date of manufacture.
c. Long term storage (more than a week): Store indoors at temperatures between 50°F and 90°F. On job sites, if product will be exposed to the weather for more than a week, best to cover with a tarp or other protection.
d. Failure to comply with the recommended storage conditions may affect product performance and/or void the warranty
e. Keep all materials out of the reach of children.
f. If irritation occurs during use, liberally flush affected areas with water. If irritation continues, see a physician immediately.

Project Conditions

1. All surfaces to which the Aussie Skin 560G is applied must be sound and stable, with an even finish and free from sharp protruding items, dust, loose debris, grease, curing agents, or anything else that might damage or prevent the proper installation of the membrane.
2. The Aussie Skin may be applied at temperatures as low as 20°F and as high as 110°F. For applications at temperatures between 20°F to 40°F, follow the cold weather installation procedures.
3. For best results, Aussie Skin should be installed in dry conditions. When installing in damp or wet conditions, additional steps are required. See Aussie Skin Installation Instructions for more info. (Note: Aussie Skin can be damp or wet when concrete is poured, as long as there is no ponding water on its surface.)
4. Warn personnel against hazards or hazardous conditions on the job that might require special protective gear and or any other special protective or safety procedures.
5. Protect adjacent surfaces which could be damaged during the application procedure.
6. This system must not be used to cover Expansion Joints.
7. In areas where formwork is to be removed (slab edges, footings, top of wall) for tie-in to post-applied waterproofing, the formwork shall remain in place for a minimum 72 hours after placement of concrete. Please contact AVM if form removal is scheduled sooner as this could affect the Aussie Skin's bond to the concrete.

System Application

Read the **AVM Aussie Skin 560G** Training Manual/Installation Instructions Prior to Installation. Application instructions vary based on application surfaces, job conditions, temperatures, etc. When installed as a methane barrier, continuous inspection by a registered deputy inspector certified by AVM Industries and registered in accordance with the requirements specified in Section 91.1704 of the Los Angeles Municipal Code for special inspections is required.

Quality Control

a. Visually inspect all surfaces to ensure a full and proper application, especially at seams, corners, drainage footings, penetrations and other hard-to-reach areas.
b. All unsatisfactory areas shall be repaired prior to final acceptance.
c. Structural concrete must be placed directly on the membrane in all locations

Protection of Installed Work

a. The membrane shall be protected until concrete is properly poured over it.
b. Do not leave the membrane exposed to U.V. for more than 60 days.
c. Always protect the waterproofing from possible damage. If membrane becomes damaged, contact waterproofing installer or AVM before proceeding with pouring concrete.
d. Once the Aussie Skin is installed (The seams have been bonded together), the Aussie Skin (including the seams) may be immediately exposed to both, rain or water.

Availability and Cost

Contact AVM Industries or your approved applicator for pricing and availability.

Technical Services

Technical services are available by contacting our offices at: 888.414.1041 or 818.888.0050 or visit www.avmindustries.com

System Specifications

See next page.

The following coverages are based on controlled tests. Actual coverages may vary.

Item/Component	Packaging	Approximate Shipping Weights	Qty per Pallet	VOC
Aussie Skin 560G Membrane 2M (100 Mils)	6.56'x65.6' Roll (430 sqft)	~222.7 pounds (~101kg) / Roll	18 Rolls/Pallet	N/A
Aussie Skin Detail Strip 560G	13.1"x65.6' Roll	30.8 lbs (14 kg) / Roll		N/A
Aussie Skin Double Sided Tape 4"	4"x33' Roll	2.2 lbs / Roll		N/A
Aussie Skin Sanded Tape 4"	3.9"x65.6' Roll	6 lbs / Roll		N/A

L021 Waterproofing Test Results	Test Results	Test Requirements	Test Method
Puncture Resistance	239 Lbf	Min 40 Lbs	ASTM E154
Hydrostatic Pressure Resistance	192 PSI	As Tested	ASTM D751
Lateral Water Migration Resistance	231 feet (71 M) of hydrostatic head pressure	Pass	ASTM D5385 Modified [1]
Resistance to Hydrostatic Head	231 feet (71 M) of hydrostatic head pressure	Pass	ASTM D5385
Adhesion to Concrete and Masonry	10 Pounds	Min 5 Pounds	ASTM D903
Tension & Elongation: Machine Direction	1061 %	Min 250%	ASTM D412
Tension & Elongation: Cross Machine Direction	1050 %	Min 250%	ASTM D412
Tensile Strength after Soil Burial MD/CMD	PASS	±10%	ASTM D412/ASTM D4068
Elongation after Soil Burial MD/CMD	PASS	±10%	ASTM D412/ASTM D4068
Weight Change after Soil Burial	0%	±5%	ASTM D4068
Tensile Strength after Oil Exposure MD/CMD	PASS	±10%	ASTM D412
Elongation after Oil Exposure MD/CMD	PASS	±10%	ASTM D412
Weight Change after Oil Exposure	1%	±10%	ASTM D543
Tensile Strength after Heat Aging MD/CMD	PASS	±10%	ASTM D412
Elongation after Heat Aging MD/CMD	PASS	±10%	ASTM D412
Accelerated Aging	No considerable reduction in Tension and Elongation of Aged Specimens	Pass. No considerable reduction in either	ASTM G23 & G153
Resistance to Decay (Weight Loss)	0.8%	Max 10%	ASTM E154
Resistance to Decay (Permeance Loss)	0%	Max 10%	ASTM E154
Water Vapor Transmission	0.016 Perms	Max 0.1 Perms	ASTM E96
Water Vapor Transmission after Decay	0.016 Perms	Max 0.1 Perms	ASTM E96
Low temperature flexibility	Unaffected at -29°C	Not Listed	ASTM D1970
Lap Peel Adhesion	8 (lbf/in)	Not Listed	ASTM D1876
Bonded Seam Strength 6" Factory Lap	99 lbf	Not Listed	ASTM D 882
Bonded Seam Strength after Soil Burial	PASS	±10%	ASTM D882
Bonded Seam Strength after Oil Exposure	PASS	±10%	ASTM D882
Bonded Seam Strength after Heat Aging	PASS	±10%	ASTM D882
Environmental Stress-Cracking	PASS	No Cracking	ASTM D1693
Water Absorption	0.059%	As Tested	ASTM D570
PCE Diffusion Coefficient	6.62E-13m²/s	Report Results	ASTM 96/96M-16
TCE Diffusion Coefficient	1.51E-12m²/s	Report Results	ASTM 96/96M-16
Benzene Diffusion Coefficient	1.45E-12m²/s	Report Results	ASTM 96/96M-16

1. Lateral water migration resistance is tested by casting concrete and shot-crete against membrane with a hole and subjecting the membrane to hydrostatic head pressure with water. The test measures the resistance of lateral water migration between the concrete and the membrane. Tests were performed by an independent certified lab. (This test is in addition to the L021 testing requirements

GAS/VOC/Radon Test Results	Test Results	Test Requirements	Test Method
Methane Gas Transmission Rate (mL/day*m²*atm)	26	≤ 40	ASTM D4068
TCE Diffusion Coefficient	$1.51E^{-12}$	Report Results	ASTM 96/96M-16
Methane Gas Transmission Rate (mL/day*m²*atm)	26	≤40	ASTM 1434
Methane Gas Transmission Rate after Soil Burial (mL/day*m²*atm)	26	≤40	ASTM 1434
Benzene Diffusion Coefficient	$1.45E^{-12}$	Report Results	ASTM 96/96M-16
PCE Diffusion Coefficient	$6.62E^{-13}$	Report Results	ASTM 96/96M-16
Radon Diffusion Coefficient D (m²/s)	$2,2.10^{-12}$	Report Results	ISO/TS 11665-13, Method A
Radon (Seam Overlap) Diffusion Coefficient D (m²/s)	$1,6.10^{-12}$	Report Results	ISO/TS 11665-13, Method A

Shot-Crete Test Results	Test Method	Results	Requirements
Installation over Plywood or directly on the Lagging			
Waterproof Integrity of Side (factory) Lap, overlap installed over 2" plywood joint with nails in laps	ASTM D 5385	Pass	No water leakage detected up to 100 PSI
Waterproof Integrity of End (non-factory) Lap, overlap installed over 2" plywood joint	ASTM D 5385	Pass	
Waterproof Integrity of Side (factory) Lap, overlap installed over 2" plywood joint without nails in laps	ASTM D 5385	Pass	
Puncture Integrity at Screw Protrusion, Membrane installed over 1/4" protruding #8 bugle head wood screw	Visual Inspection	Pass	No puncture detected
Installation over Lagging 0.5" EPS Insulation Board (Foam)			
Waterproof Integrity of Side (factory) Lap, overlap installed over EPS Foam Board located over 2" lagging joint with nails in laps	ASTM D 5385	Pass	No water leakage detected up to 100 PSI
Waterproof Integrity of End (non-factory) Lap, overlap installed over EPS Foam Board located over 2" lagging joint	ASTM D 5385	Pass	
Waterproof Integrity of Side (non-factory) Lap, overlap installed over EPS Foam Board located over 2" lagging joint; Joint without nails in laps	ASTM D 5385	Pass	
Puncture Integrity at Nail Protrusion Membrane installed over 1/4" protruding nail with 7/32" dia. head	Visual Inspection	Pass	No puncture detected
Installation over Drain Board			
Waterproof Integrity of Side (factory) Lap, overlap installed over Drain Board located over 2" lagging joint with nails in laps	ASTM D 5385	Pass	No water leakage detected up to 100 PSI
Waterproof Integrity of End (non-factory) Lap, overlap installed over Drain Board located over 2" lagging joint	ASTM D 5385	Pass	
Waterproof Integrity of Side (non-factory) Lap, overlap installed over Drain Board located over 2" lagging joint; Joint without nails in laps	ASTM D 5385	Pass	
Puncture Integrity at Nail Protrusion Membrane installed over 1/4" protruding nail with 7/32" dia. head	Visual Inspection	Pass	No puncture detected

Note: **"Test Requirements"** as listed in **Los Angeles City Test Protocol L021,** ***Acceptance Criteria for Below-Grade Exterior Damp-Proofing and Waterproofing Materials dated May 2004 And Los Angeles City Shot-Crete Test Protocol dated April 26, 2016.***

*AVM considers this product to be a VOC barrier based on the above test results. Please contact AVM Technical Services if you have further questions regarding specific VOC's

For a complete list of details in CAD or PDF, please visit our website at www.avmindustries.com.

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